

What is claimed is :

1. A fuel for solid electrolyte type fuel cell having a solid electrolyte film, wherein the fuel includes a liquid organic fuel, and a
5 compound excluding the sulfuric acid dissolved in the liquid organic fuel and does not permeate the solid electrolyte film.
2. The fuel for solid electrolyte type fuel cell according to claim 1, wherein the compound is non-electrolyte.
3. The fuel for solid electrolyte type fuel cell according to claim 1,
10 wherein the compound is an organic compound different from the liquid organic fuel.
4. The fuel for solid electrolyte type fuel cell according to claim 3, wherein the organic compound is selected from at least one of sugars, alcohols and amines.
- 15 5. The fuel for solid electrolyte type fuel cell according to claim 1, wherein the compound is a strong electrolyte.
6. The fuel for solid electrolyte type fuel cell according to claim 5, wherein the strong electrolyte is chloride, nitrate, and sulfate.
7. The fuel for solid electrolyte type fuel cell according to claim 1,
20 wherein the compound has a concentration ranging from 0.1 mmol/L to 5mol/L.
8. The fuel for solid electrolyte type fuel cell according to claim 1, wherein the compound has a concentration ranging from 1 mmol/L to 1 mol/L.
- 25 9. The fuel for solid electrolyte type fuel cell according to claim 1, wherein the fuel has a pH value ranging from 4 to 8.
10. The fuel for solid electrolyte type fuel cell according to claim 1, wherein the compound is electrochemically inert and non-volatile.
11. A method of using the solid electrolyte type fuel cell comprising a
30 fuel electrode, an oxidizing agent electrode, and a solid electrolyte film positioned in between the fuel electrode and the oxidizing agent electrode; wherein the fuel includes a liquid organic fuel and a compound excluding the sulfuric acid dissolved in the liquid organic fuel and does not permeate the solid electrolyte film, which
35 is supplied to the fuel electrode.

12. The method of using the solid electrolyte type fuel cell according to claim 11, wherein the compound is non-electrolyte.
13. The method of using the solid electrolyte type fuel cell according to claim 11, wherein the compound is an organic compound different from the liquid organic fuel.
14. The method of using the solid electrolyte type fuel cell according to claim 13, wherein the organic compound is selected from at least one of sugars, alcohols, and amines.
15. The method of using the solid electrolyte type fuel cell according to claim 11, wherein the compound is a strong electrolyte.
16. The method of using the solid electrolyte type fuel cell according to claim 15, wherein the strong electrolyte is a chloride, nitrate, and sulfate.
17. The method of using the solid electrolyte type fuel cell according to claim 11, wherein the compound has a concentration ranging from 0.1 mmol/L to 5mol/L.
18. The method of using the solid electrolyte type fuel cell according to claim 11, wherein the compound has a concentration ranging from 1 mmol/L to 1mol/L.
19. The method of using the solid electrolyte type fuel cell according to claim 11, wherein the fuel has a pH value ranging from 4 to 8.
20. The method of using the solid electrolyte type fuel cell according to claim 11, wherein the compound is electrochemically inert and non-volatile.
21. A solid electrolyte type fuel cell, comprising: a fuel electrode; an oxidizing agent electrode; a solid electrolyte film positioned in between the fuel electrode and the oxidizing agent electrode; and a solid electrolyte type fuel cell that includes a fuel supplied to the fuel electrode, wherein the fuel includes a liquid organic fuel, and a compound excluding the sulfuric acid dissolved in the liquid organic fuel and does not permeate the solid electrolyte film.
22. The solid electrolyte type fuel cell according to claim 21, further comprising a supplying step for supplying the fuel to the fuel electrode.
23. The solid electrolyte type fuel cell according to claim 22, further comprising a recycling step for recycling a fuel expelled from the

fuel electrode; a concentration adjusting step for adjusting a concentration of the compound, and the liquid organic fuel inside a recycled fuel at the recycling step; and a transporting step for transporting the fuel to the supplying step of which a concentration is adjusted by the concentration adjusting step.

24. The solid electrolyte type fuel cell according to claim 21, wherein the compound is a non-electrolyte.

25. The solid electrolyte type fuel cell according to claim 21, wherein the compound is an organic compound different from the liquid organic fuel.

26. The solid electrolyte type fuel cell according to claim 25, wherein the organic compound is selected from at least one of sugars, alcohols, and amines.

27. The solid electrolyte type fuel cell according to claim 21, wherein the compound is a strong electrolyte.

28. The solid electrolyte type fuel cell according to claim 27, wherein the strong electrolyte is chloride, nitrate, and sulfate.

29. The solid electrolyte type fuel cell according to claim 21, wherein the compound has a concentration ranging from 0.1 mmol/L to 5 mol/L.

30. The solid electrolyte type fuel cell according to claim 29, wherein the compound has a concentration ranging from 1 mmol/L to 1 mol/L.

31. The solid electrolyte type fuel cell according to claim 21, wherein the fuel has a pH value ranging from 4 to 8.

32. The solid electrolyte type fuel cell according to claim 21, wherein the compound is electrochemically inert and non-volatile.